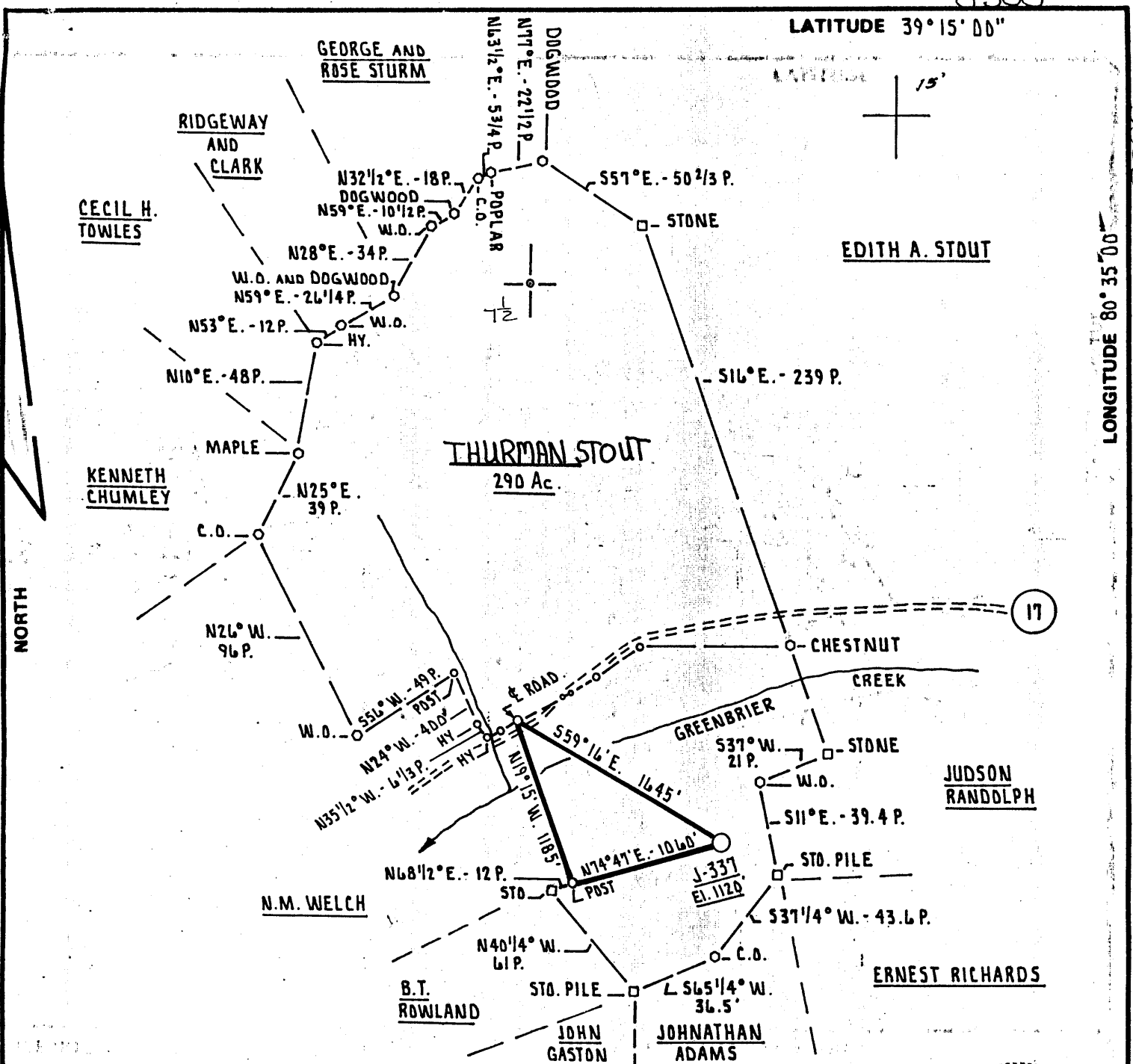


cl 1/5

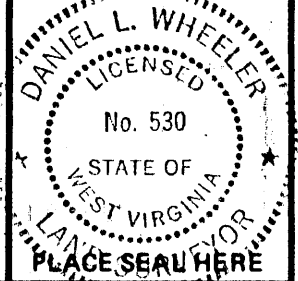
8300



LONGITUDE 80° 35' 00"

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200  
 PROVEN SOURCE OF ELEVATION INT. RT. 15 AND RT. 17  
 ELEVATION 897'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
 (SIGNED) Daniel L. Wheeler  
 R.P.E. \_\_\_\_\_ L.L.S. 530



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-8 (8-78)



DATE DECEMBER 16<sup>th</sup>, 19 80  
 OPERATOR'S WELL NO. J-337  
 API WELL NO. 47 - 017 - 2926-P  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

**PL. CANCELLED**

WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
 LOCATION: ELEVATION 1120' WATER SHED GREENBRIER CREEK  
 DISTRICT GREENBRIER COUNTY DODDRIDGE  
 QUADRANGLE BIG ISAAC 7.5' 15  
 SURFACE OWNER THURMAN STOUT ET. UX. ACREAGE 70.74 Ac.  
 OIL & GAS ROYALTY OWNER NEVA RITTER LEASE ACREAGE 290 Ac.  
 LEASE NO. J. and J. 64  
 PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5400  
 WELL OPERATOR J. and J. ENTERPRISES, INC. DESIGNATED AGENT HARRY BARNETT  
 ADDRESS P.O. Box 48 BUCKHANNON, WEST VIRGINIA 26201 ADDRESS P.O. Box 48 BUCKHANNON, WEST VIRGINIA 26201

AUG 01 1988

5800' 2926-P

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OIL AND GAS DIVISION

Date 5/1/81, 1981

FORM IV-35  
(Obverse)

Operator's  
Well No. J-337

[08-78]

WELL OPERATOR'S REPORT  
OF

API Well No. 47-017-2926  
State County Permit

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil      / Gas x / Liquid Injection      / Waste Disposal      /  
(If "Gas", Production x / Underground storage      / Deep      / Shallow x /)

LOCATION: Elevation: 1120 Watershed: Greenbrier Creek  
District: Greenbrier County: Doddridge Quadrangle: Big Issac 7.5'

WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT H.L. Barnett  
Address P.O. Box 48 Address P.O. Box 48  
Buckhannon, WV 26201 Buckhannon, WV 26201

PERMITTED WORK: Drill x / Convert      / Drill deeper      / Redrill      / Fracture or stimulate x  
Plug off old formation      / Perforate new formation      /  
Other physical change in well (specify)     

PERMIT ISSUED ON 1-2, 1981

OIL & GAS INSPECTOR FOR THIS WORK:

(IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED

Name Steve Casey  
Address Rt. # 2, Box 232-D  
Jane Lew, WV 26378

GEOLOGICAL TARGET FORMATION: Alexander Depth 5435-5480 feet

Depth of completed well, 5630 feet. Rotary x / Cable Tools     

Water strata depth: Fresh, 120,795 feet; salt, 0 feet.

Coal seam depths: None Is coal being mined in the area? No

Work was commenced 1/26, 1981, and completed 2/2, 1981

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor	13/4	H-40	42	x		21	21	0 sks.	Kinds
Fresh water	8 5/8	ERW	23	x		1227.40	1227.40	295 sks.	
Coal	8 5/8	ERW	23	x		1227.40	1227.40	295 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		5533.05	5533.05	750 sks.	Deaths set
Tubing									
Liners									Perforations:
									Top Bottom
									5466 5475
									5116 5119

RECEIVED  
MAY - 4 1981

OIL & GAS DIVISION  
DEPT. OF MINES

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5466-5475 feet

Gas: Initial open flow,      Mcf/d Oil: Initial open flow,      Bbl/d

Combined Final open flow, 179 Mcf/d Final open flow,      Bbl/d

Time of open flow between initial and final tests, 4 hours

Static rock pressure, 1910 psig (surface measurement) after 96 hours shut in

[If applicable due to multiple completion--]

Second producing formation Benson Pay zone depth 5116-19 feet

Gas: Initial open flow,      Mcf/d Oil: Initial open flow,      Bbl/d

Final open flow,      Mcf/d Final open flow,      Bbl/d

Time of open flow between initial and final tests,      hours

Static rock pressure,      psig (surface measurement) after      hours shut in

MAY 21 1981

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Alexander: Perforations: 5466-68 (12 holes)  
Fracturing: 200 sks. 80/100 sand: 400 sks. 20/40 sand: 531 Bbls. fluid:

Benson: Perforations: 5116-19 (12 holes)  
Fracturing: 100 sks. 80/100 sand: 280 sks. 20/40 sand: 500 gal. Acid.  
341 Bbls. fluid.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Top Soil			0	10	
Shale			10	135	1" stream @ 120'
Sand & shale			135	185	
White sand & shale			185	300	3/4" stream @ 795'
White sand & shale			300	685	
Shale & white sand			685	855	Gas ck @ 2408 10/10-1" 23,314
Brown sand			855	873	
Sand, shale & red rock			873	1100	Gas ck @ 2908 29/10-2" w/water 227,000 cu.ft.
Shale			1100	1406	
Brown sand			1406	1410	
Shale & white sand			1410	1485	Gas ck @ 3626 30/10-2" w/water 230,000 cu.ft.
Sand & shale			1485	1700	
Sand & shale			1700	2170	
Big Lime			2170	2240	Gas ck @ 5194 30/10-2" w/water 231,000 cu.ft.
Sand & shale			2240	2600	
Sand & shale			2600	3250	
Shale & sand			3250	4000	Gas ck @ T.D. 80/10-1" w/water 67,337 cu.ft.
Shale			4000	4175	
Shale & sand			4175	5100	
Benson			5100	5120	
Shale			5120	5435	
Alexander			5435	5480	
Shale			5480	5630 TD	

(Attach separate sheets to complete as necessary)

J & J Enterprises, Inc.  
Well Operator  
By Peter Battles  
Its Geologist

NOTE: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-337  
API Well No. 47-017-2926  
State County Permit

WELL TYPE: Oil \_\_\_ / Gas X /  
(If "Gas", Production X / Underground storage \_\_\_ / Deep \_\_\_ / Shallow X /)  
Elevation: 1120' Watershed: Greenbrier Creek  
District: Greenbrier County: Doddridge Quadrangle: Big Issac 7.5

OPERATOR J & J Enterprises, Inc.  
Address P.O. Box 48  
Buckhannon, WV 26201

DESIGNATED AGENT H.L. Barnett  
Address P.O. Box 48  
Buckhannon, WV 26201

LAND & GAS INTERESTS  
PROPERTY OWNER Neva Ritter  
Address Box 89  
Salem, WV 26426

COAL OPERATOR None  
Address \_\_\_\_\_

ACREAGE 290 Ac.  
SURFACE OWNER Thurman Stout  
Address Rt. 1  
Salem, WV 26426

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name W. Guy Tetrick  
Address Union National Bank Building  
P.O. Box 2190  
Clarksburg, WV 26301

ACREAGE 70.74  
FIELD SALE (IF MADE) TO:  
Name Pennzoil  
Address \_\_\_\_\_

Name \_\_\_\_\_  
Address \_\_\_\_\_

LAND & GAS INSPECTOR TO BE NOTIFIED  
Name Paul Garrett  
Address 321 Beech Ste.  
Clarksburg, WV 26301

COAL LESSEE WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
**RECEIVED**  
JAN - 2 1981

OIL & GAS DIVISION  
DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed \_\_\_ / lease \_\_\_ / other contract X / dated June 27, 1980; to the undersigned well operator from Pennzoil Company [if said deed, lease, or other contract has been recorded:]

Recorded on September 18, 1980, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Deed Book 117 at page 146. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper \_\_\_ / Redrill \_\_\_ / Fracture or stimulate X /  
Plug off old formation \_\_\_ / Perforate new formation \_\_\_ /  
Other physical change in well (specify) \_\_\_\_\_

--planned as shown on the work order on the reverse side hereof.

The above named well operator, coal owner(s), and coal lessee are hereby notified that any application they wish to make or are required to make by Code § 22-2-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL  
PHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS  
CONSERVATION COMMISSION  
608 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 345-3092

BLANKET BOND

J & J Enterprises, Inc.  
Well Operator  
By Peter Battles  
Peter Battles  
Geologist

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) S.W. Jack Drilling Co.  
Address P.O. Box 48  
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5460 feet Rotary X / Cable tools      /

Approximate water strata depths: Fresh, 95 feet; salt, 1295 feet.

Approximate coal seam depths: None Is coal being mined in the area: Yes      / No X

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor	113/4	H40	42	X		30	30	0 sks.	Kinds
Fresh water	8 5/8	ERW	23	X		1100	1100	350 sks.	CTS
Coal	8 5/8	ERW	23	x		1100	1100	350 sks.	
Intermediate									Sizes
Production	4 1/2	J55	10.5	X		5350	5350	535 450 sks. of	Deaths set
Tubing								to require of rule 15.01	Perforations:
Liners									
									Top Bottom

**NOTE:** Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is a part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved

for drilling. This permit shall expire if

operations have not commenced by 9-7-81.

*J. Murray*  
Deputy Director, Oil & Gas Division

This permit must be executed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

**E A L V E R**

The undersigned coal operator / owner / lessee / of the coal under this well has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

By \_\_\_\_\_  
Its \_\_\_\_\_